Southern Nuclear

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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 3
ITAAC Closure Notification on Completion of ITAAC 2.6.06.01.i [Index Number 637]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 3 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.6.06.01.i [Index Number 637]. This ITAAC verifies that a connection exists between the Instrument/computer grounding system and the station grounding grid; a connection exists between the electrical system grounding and the station grounding grid; a connection exists between the equipment grounding system and the station grounding grid, and a connection exists between the lightning protection system and the station grounding grid. The closure process for this ITAAC is based on the guidance described in NEI-08-01, "Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52", which is endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Kelli Roberts at 706-848-6991.

Respectfully submitted,

Stacy for Michael J. Yox

Michael J. Yox
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC 2.6.06.01.i [Index Number 637]

MJY/CMK/sfr

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Southern Nuclear Operating Company
ND-21-0880
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 3
ITAAC Closure Notification on Completion of ITAAC 2.6.06.01.i [Index Number 637]

ITAAC Statement

Design Commitment

1. The EGS provides an electrical grounding system for: (1) instrument/computer grounding; (2) electrical system grounding of the neutral points of the main generator, main step-up transformers, auxiliary transformers, load center transformers, auxiliary and onsite standby diesel generators; and (3) equipment grounding of equipment enclosures, metal structures, metallic tanks, ground bus of switchgear assemblies, load centers, motor control centers, and control cabinets. Lightning protection is provided for exposed structures and buildings housing safety-related and fire protection equipment. Each grounding system and lightning protection system is grounded to the station grounding grid.

Inspections/Tests/Analyses

i) An inspection for the instrument/computer grounding system connection to the station grounding grid will be performed.

ii) An inspection for the electrical system grounding connection to the station grounding grid will be performed.

iii) An inspection for the equipment grounding system connection to the station grounding grid will be performed.

iv) An inspection for the lightning protection system connection to the station grounding grid will be performed.

Acceptance Criteria

i) A connection exists between the instrument/computer grounding system and the station grounding grid.

ii) A connection exists between the electrical system grounding and the station grounding grid.

iii) A connection exists between the equipment grounding system and the station grounding grid.

iv) A connection exists between the lightning protection system and the station grounding grid.

ITAAC Determination Basis

The EGS provides an electrical grounding system for four grounding subsystems: (1) instrument/computer grounding; (2) electrical system grounding of the neutral points of the main generator, main step-up transformers, auxiliary transformers, load center transformers, and onsite standby diesel generators; (3) equipment grounding of equipment enclosures, metal structures, metallic tanks, ground bus of switchgear assemblies, load centers, motor control centers, and control cabinets and (4) Lightning protection is provided for exposed structures and buildings housing safety-related and fire protection equipment. Each grounding system and lightning protection system is grounded to the station grounding grid.

The connections to the station grounding grid for the four grounding subsections are identified in Table 1 of drawing SV3-0000-EG-003 (Reference 1). Each connection is uniquely identified in the plan drawings. The connections to the station grounding grid are exothermic and installed in accordance with the project specification. Each connection is inspected and documented in accordance with 26139-000-4MP-T81C-N3307 and F-E204-000 (References 2 and 3).

The results of the inspection performed at each connection to the station grounding grid for the four grounding subsections are identified in SV3-EGS-ITR-900637 (Reference 4) and confirm; (1) a connection exists between the instrument/computer grounding system and the station grounding grid; (2) a connection exists between the electrical system grounding and the station grounding grid; (3) a connection exists between the equipment grounding system and the station grounding grid, and (4) a connection exists between the lightning protection system and the station grounding grid.

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all ITAAC findings and associated corrective actions. This review found no relevant ITAAC findings associated with this ITAAC.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.6.06.01.i was performed for VEGP Unit 3 and that the prescribed acceptance criteria are met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

1. SV3-0000-EG-003 Rev 3, "Grounding Plan Nuclear Island Building"
2. 26139-000-4MP-T81C-N3307 Rev 3, "Grounding Installation Inspection Record"
3. F-E204-000 Rev 3, "ITAAC Grounding System (EGS)"
4. SV3-EGS-ITR-900637 Rev 0, "EGS Inspection Technical Report"
5. 2.6.06.01.i-U3-CP-Rev0, ITAAC Completion Package